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OM protein - protein search, using sw model

Run on: March 18, 2004, 06:01:47 ; Search time 42 Seconds  
(without alignments)  
1220.789 Million cell updates/sec

Title: US-09-966-880A-8  
Perfect score: 1086  
Sequence: 1 MDSLMMRRKRLYQFKNVW.....ILLPLVEVDLDAFRTGL 198

Scoring table: BLOSUM62  
Gap 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 1049977

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

1: /cgn2\_6/prodata/2/pubppa/US07\_PUBCOMB.pep:\*  
2: /cgn2\_6/prodata/2/pubppa/PCT\_NEW\_PUB.pep:\*  
3: /cgn2\_6/prodata/2/pubppa/US06\_NEW\_PUB.pep:\*  
4: /cgn2\_6/prodata/2/pubppa/US06\_PUBCOMB.pep:\*  
5: /cgn2\_6/prodata/2/pubppa/US07\_NEW\_PUB.pep:\*  
6: /cgn2\_6/prodata/2/pubppa/PCTUS\_PUBCOMB.pep:\*  
7: /cgn2\_6/prodata/2/pubppa/US08\_NEW\_PUB.pep:\*  
8: /cgn2\_6/prodata/2/pubppa/US08\_PUBCOMB.pep:\*  
9: /cgn2\_6/prodata/2/pubppa/US09\_PUBCOMB.pep:\*  
10: /cgn2\_6/prodata/2/pubppa/US09B\_PUBCOMB.pep:\*  
11: /cgn2\_6/prodata/2/pubppa/US09B\_PUBCOMB.pep:\*  
12: /cgn2\_6/prodata/2/pubppa/US09\_NEW\_PUB.pep:\*  
13: /cgn2\_6/prodata/2/pubppa/US10A\_PUBCOMB.pep:\*  
14: /cgn2\_6/prodata/2/pubppa/US10B\_PUBCOMB.pep:\*  
15: /cgn2\_6/prodata/2/pubppa/US10C\_PUBCOMB.pep:\*  
16: /cgn2\_6/prodata/2/pubppa/US10C\_NEW\_PUB.pep:\*  
17: /cgn2\_6/prodata/2/pubppa/US60\_NEW\_PUB.pep:\*  
18: /cgn2\_6/prodata/2/pubppa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1086	100.0	198	9	US-09-966-880A-8
2	1008	92.8	198	9	US-09-966-880A-2
3	390	35.9	189	15	US-10-460-923-5
4	390	35.9	184	9	US-09-729-674-174
5	390	35.9	184	15	US-10-460-923-2
6	369.5	34.5	222	9	US-09-925-300-1639
7	363.5	33.5	199	15	US-10-460-923-7
8	349	32.1	210	14	US-10-460-923-4
9	300	27.6	152	14	US-10-247-671-159
10	238.5	22.0	195	15	US-10-460-923-3
11	230	21.2	219	15	US-10-460-923-6
12	218.5	20.1	226	14	US-10-157-031-14
13	216.5	19.9	226	15	US-10-460-923-8
14	211	19.4	229	9	US-09-966-880A-36
15	198	18.2	127	15	US-10-104-047-3729

16	167	15.4	128	15	US-10-378-029-77	Sequence 77, Appl
17	154	14.2	151	14	US-10-029-386-34155	Sequence 34155, A
18	84	7.7	51	9	US-09-864-761-18853	Sequence 18853, A
19	81	7.5	440	13	US-10-120-319-3	Sequence 3, Appl
20	81	7.5	440	14	US-10-189-977-3	Sequence 3, Appl
21	81	7.5	440	14	US-10-392-098-3	Sequence 15, Appl
22	80	7.4	476	9	US-09-733-524-15	Sequence 15, Appl
23	80	7.4	476	13	US-10-120-319-5	Sequence 5, Appl
24	80	7.4	476	14	US-10-189-977-5	Sequence 5, Appl
25	80	7.4	476	14	US-10-392-098-5	Sequence 5, Appl
26	77.5	7.1	261	10	US-09-851-873-55	Sequence 55, Appl
27	77.5	7.1	328	15	US-10-369-493-6748	Sequence 6748, Ap
28	77.5	7.1	663	13	US-10-080-960-14	Sequence 14, Appl
29	77.5	7.1	663	14	US-10-247-671-135	Sequence 15, App
30	77	7.0	790	14	US-10-153-668-164	Sequence 164, App
31	76.5	7.0	122	12	US-10-424-599-143617	Sequence 13617, A
32	76.5	7.0	214	12	US-10-424-599-182345	Sequence 182345, A
33	76.5	7.0	223	12	US-10-425-114-47947	Sequence 47947, A
34	75.5	7.0	382	10	US-09-847-308-25	Sequence 25, Appl
35	75	6.9	330	14	US-10-265-593-4	Sequence 4, Appl
36	75	6.9	354	12	US-10-087-684-63	Sequence 63, Appl
37	75	6.9	354	12	US-10-218-779-63	Sequence 63, Appl
38	75	6.9	354	12	US-10-072-012-615	Sequence 615, App
39	75	6.9	401	12	US-10-072-012-581	Sequence 581, App
40	74	6.8	200	10	US-09-851-873-65	Sequence 65, Appl
41	74	6.8	707	15	US-10-014-099P-61	Sequence 61, Appl
42	74	6.8	1291	15	US-10-452-024-122	Sequence 122, Appl
43	73.5	6.8	257	12	US-10-425-114-42048	Sequence 42048, A
44	73.5	6.8	427	12	US-10-425-114-48829	Sequence 48829, A
45	73	6.7	336	12	US-10-282-122A-68246	Sequence 68246, A

#### ALIGNMENTS

RESULT 1  
US-09-966-880A-8  
Sequence 8, Application US/09966880A  
Patent No. US2002016473A1  
GENERAL INFORMATION:  
APPLICANT: Honjo, Tasuku  
APPLICANT: Muramatsu, Masamichi  
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE  
FILE REFERENCE: 06501-088001  
CURRENT APPLICATION NUMBER: US/09/966, 880A  
CURRENT FILING DATE: 2001-09-28  
PRIOR APPLICATION NUMBER: PCT/JP00/01918  
PRIOR FILING DATE: 2000-03-28  
PRIOR APPLICATION NUMBER: JP 11-371382  
PRIOR FILING DATE: 1999-12-27  
PRIOR APPLICATION NUMBER: JP 11-178999  
PRIOR FILING DATE: 1999-06-24  
PRIOR APPLICATION NUMBER: JP 11-87192  
NUMBER OF SEQ ID NOS: 36  
SOFTWARE: FastSeq For Windows Version 4.0  
SEQ ID NO 8  
LENGTH: 198  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-966-880A-8

Query Match	100.0%	Score 1086	DB 9	Length 198
Best Local Similarity	100.0%	Pred. No. 8.1e-114	Mismatches 0	Indels 0
Matches 198	Conservative 0	Mismatches 0	Gaps 0	
QY	1	MDSLMMRRKRLYQFKNVWAKGRRETYLGVVRRDSATSFSLDFGLRYKNGCYVELL	60	
DB	1	MDSLMMRRKRLYQFKNVWAKGRRETYLGVVRRDSATSFSLDFGLRYKNGCYVELL	60	
QY	61	FLRYSIMDLDPGRCYEVWFTSWSPCYDCARHVADELKGNPNLSLIFARLYFCEDRK	120	
DB	61	FLRYSIMDLDPGRCYEVWFTSWSPCYDCARHVADELKGNPNLSLIFARLYFCEDRK	120	



Db 197 MDPTFTFNNPNNPVRGRHETLYCYEVRMNDTWLNNQRGFLCNQAPHKHGLEGR 256  
Qy 56 HVELLFLRYSMDWDDPGRCYRTWFTSWSPCYDCARHVADEFLRGPNLSLRIFTARLYF 115  
Db 257 HAEELCLDVIPEWKLDDIDYRTCTFSWSPCSCAQEAKRISKIKHVSICIFARLY- 315  
Qy 116 CEDRKAEPEGLRLHRAQVOIALMTFKDYFCMNTFVENHETFRKAMEGLHNSVRLSRQ 175  
Db 316 -DDQRCQEGRLTLAEAGAKISIMTYSEPKHCDTFVDHQGCPFPQMDGLDEHSODLSGR 374  
Qy 176 LRRIL 180  
Db 375 LRAIL 379

## RESULT 5

US-10-460-923-2  
; Sequence 2, Application US/10460923  
; Publication No. US20040009951A1  
; GENERAL INFORMATION:  
; APPLICANT: MALIM, Michael H.  
; APPLICANT: SHEEHY, Ann M.  
; APPLICANT: HARRIS, Reuben S.  
; APPLICANT: BISHOP, Kate N.  
; APPLICANT: NEUBERGER, Michael S.  
; APPLICANT: GADDIS, Nathan C.  
; APPLICANT: SIMON, James H.M.  
; TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection  
; FILE REFERENCE: 22253-74380  
; CURRENT APPLICATION NUMBER: US/10/460,923  
; CURRENT FILING DATE: 2003-06-13  
; PRIOR APPLICATION NUMBER: US 60/388,513  
; PRIOR FILING DATE: 2002-06-13  
; PRIOR APPLICATION NUMBER: US 60/472,952  
; PRIOR FILING DATE: 2003-05-23  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 384  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-460-923-2

Query Match 35.9%; Score 390; DB 15; Length 384;  
Best Local Similarity 44.9%; Pred. No. 3.8e-35;  
Matches 83; Conservative 31; Mismatches 59; Indels 12; Gaps 3;

Qy 6 NNRKFLYQFKAVRNAGKGRRETYLCYVYKRDATSFSID--FGYLRNK-----NGC 55  
Db 197 MDPTFTFNNPNNPVRGRHETLYCYEVRMNDTWLNNQRGFLCNQAPHKHGLEGR 256  
Qy 56 HVELLFLRYSMDWDDPGRCYRTWFTSWSPCYDCARHVADEFLRGPNLSLRIFTARLYF 115  
Db 257 HAEELCLDVIPEWKLDDIDYRTCTFSWSPCSCAQEAKRISKIKHVSICIFARLY- 315  
Qy 116 CEDRKAEPEGLRLHRAQVOIALMTFKDYFCMNTFVENHETFRKAMEGLHNSVRLSRQ 175  
Db 316 -DDQRCQEGRLTLAEAGAKISIMTYSEPKHCDTFVDHQGCPFPQMDGLDEHSODLSGR 374  
Qy 176 LRRIL 180  
Db 375 LRAIL 379

## RESULT 6

US-09-925-300-1639  
; Sequence 1639, Application US/09925300  
; Patent No. US20020151681A1  
; GENERAL INFORMATION:  
; APPLICANT: Craig Rosen,  
; APPLICANT: Steve Ruben,  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA101

; CURRENT APPLICATION NUMBER: US/09/925,300  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/059988  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1890  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1639  
; LENGTH: 222  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-925-300-1639

Query Match 34.0%; Score 369.5; DB 9; Length 222;  
Best Local Similarity 44.9%; Pred. No. 3.8e-33;  
Matches 79; Conservative 24; Mismatches 64; Indels 9; Gaps 4;

Qy 11 FLYQFKAVRNAGKGRRETYLCYVYK--RRDSATFSIDFGYLRN-----KNGCHELLFLRY 64  
Db 49 FYQFKVLMANDRNEMTWLCTFYEGIKRVSWSKT--GVFRQVDSETHCHAEKFLSW 106  
Qy 65 ISWDLDPGRCYRTWFTSWSPCYDCARHVADEFLRGPNLSLRIFTARLYFCEDRKAPR 124  
Db 107 FCDLILSPNTKYCYTWFTSWSPCDCAGEVAEFLARSHNVNLTIFARLYYFQ-YPCYOE 165  
Qy 125 GLRLHRAQVOIALMTFKDYFCMNTFVENHETFRKAMEGLHNSVRLSRQRLIL 180  
Db 166 GLRLSDEGVAIVMDYEDFKYCMENFVYNDNPEFKKLTNIFLLKRLBSL 221

## RESULT 7

US-10-460-923-7  
; Sequence 7, Application US/10460923  
; Publication No. US20040009951A1  
; GENERAL INFORMATION:  
; APPLICANT: MALIM, Michael H.  
; APPLICANT: SHEEHY, Ann M.  
; APPLICANT: HARRIS, Reuben S.  
; APPLICANT: BISHOP, Kate N.  
; APPLICANT: NEUBERGER, Michael S.  
; APPLICANT: GADDIS, Nathan C.  
; APPLICANT: SIMON, James H.M.  
; TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection  
; FILE REFERENCE: 22253-74380  
; CURRENT APPLICATION NUMBER: US/10/460,923  
; CURRENT FILING DATE: 2003-06-13  
; PRIOR APPLICATION NUMBER: US 60/388,513  
; PRIOR FILING DATE: 2002-06-13  
; PRIOR APPLICATION NUMBER: US 60/472,952  
; PRIOR FILING DATE: 2003-05-23  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 199  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-460-923-7

Query Match 33.5%; Score 363.5; DB 15; Length 199;  
Best Local Similarity 43.5%; Pred. No. 1.6e-32;  
Matches 83; Conservative 28; Mismatches 57; Indels 23; Gaps 7;

Qy 5 LNRKFLYQFKAVRNAGKGRRETYLCYVYKRDATSFSID--FGYLRN--KN-----G 54  
Db 12 LMDPHLFTSNFNN--GIGHKTYLCYEVERLDNGTSVKRDOHGFLLHQAKNLGFGYG 68  
Qy 55 CHEVELLFLRYSMDWDDPGRCYRTWFTSWSPCYD--CARHVADEFLRGPNLSLRIFTAR 112  
Db 69 HAEELCLDVIPEWKLDDIDYRTCTFSWSPCSCAQEAKRISKIKHVSICIFARLY- 128  
Qy 113 LYFCEDRKAP---EGRLHRAQVOIALMTFKDYFCMNTFVENHETFRKAMEGLHNS 169

Db 129 IY-----DYDPLKXALQMLRDAGAGVSWTYDEFKHCDTFLVHGQCFPQMDGLDENS 183  
QY 170 VRSRQLRRL 180  
Db 184 QALSGRLRL 194

RESULT 8  
US-10-460-923-4  
Sequence 4, Application US/10460923  
Publication No. US20040009951A1  
GENERAL INFORMATION:  
APPLICANT: MALIM, Michael H.  
APPLICANT: SHEEHY, Ann M.  
APPLICANT: HARRIS, Reuben S.  
APPLICANT: BISHOP, Kate N.  
APPLICANT: NEUBERGER, Michael S.  
APPLICANT: GADDIS, Nathan C.  
APPLICANT: SIMON, James H.M.  
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection  
FILE REFERENCE: 2253-74380  
CURRENT APPLICATION NUMBER: US/10/460,923  
CURRENT FILING DATE: 2003-06-13  
PRIOR APPLICATION NUMBER: US 60/388,513  
PRIOR FILING DATE: 2002-06-13  
PRIOR APPLICATION NUMBER: US 60/472,952  
PRIOR FILING DATE: 2003-05-23  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 4  
LENGTH: 210  
TYPE: PRT  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: mouse orthologue  
US-10-460-923-4

Query Match 32.1%; Score 349; DB 15; Length 210;  
Best Local Similarity 38.8%; Pred. No. 7,2e-31;  
Matches 71; Conservative 36; Mismatches 72; Indels 4; Gaps 2;

QY 5 LMRKRLYQPKNRMAKGRRETYLCYVVKRDSATSFSLDFGLNKGCHVELLF 64  
Db 20 LISGTRFKFHKNRYAIDRDKTFLCYEVRKDCDSVSLHGVFKXKDTHAEICFL 79  
QY 65 ISD---WDLPGRCYRTWTFTSMSPCYDCARHYADFLRGPNLSLRTFRLTYFCEDRKA 121  
Db 80 FHDVYLKVLSPREBFKTTWMSWSPCECAEOYLRLFLATHNLSLDFSSRLYNIDPEN 139  
QY 122 EPEGLRLHRAQVOIALMTFEDYFCWNTFVENHERTFKAMEGLHENSVALSQRRL 161  
Db 140 Q-QVLCRLVQEGAAVMDLYEFKCKWKFTVNDGRRFRPMKLLTNFRYQDSKLOEILR 198  
QY 182 PLY 184  
Db 199 PCY 201

RESULT 9  
US-10-247-671-159  
Sequence 159, Application US/10247671  
Publication No. US20030194721A1  
GENERAL INFORMATION:  
APPLICANT: Mikita, Thomas  
APPLICANT: Shifman, Dov  
APPLICANT: Porter, Gordon, J.  
APPLICANT: Kaseer, Matthew R.  
TITLE OF INVENTION: GENES EXPRESSED IN TREATED FOAM CELLS  
FILE REFERENCE: PA-0050 US  
CURRENT APPLICATION NUMBER: US/10/247,671  
CURRENT FILING DATE: 2002-09-18  
PRIOR APPLICATION NUMBER: 60/323,784  
PRIOR FILING DATE: 2001-09-19

NUMBER OF SEQ ID NOS: 186  
SOFTWARE: PERL Program  
SEQ ID NO 159  
LENGTH: 152  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc.feature  
OTHER INFORMATION: Incyte ID No. US20030194721A1 135626CD1  
US-10-247-671-159

Query Match 27.6%; Score 300; DB 14; Length 152;  
Best Local Similarity 44.9%; Pred. No. 1.6e-25;  
Matches 66; Conservative 20; Mismatches 43; Indels 18; Gaps 5;

QY 47 GYLN--KN-----GCHVELLFRLYSDWDLDPGRCYRTWTFTSMSPCYD--CARHYAD 96  
Db 6 GFLNQAKNLGCGFYGRVAFRLFDLVSQLDPAQYRVTWFTSMSPCFSGWGAQEVRA 65  
QY 97 FLRGPNLSLRTFRLTYFCEDRKAEP---EGLRLHRAQVOIALMTFEDYFCWNTFVE 153  
Db 66 FLQENTHRLALIFARIT-----DYDPLKXALQMLRDAGAGVSWTYDEFKHCDTFLV 120  
QY 154 NHERTFKAMEGLHENSVALSQRRL 180  
Db 121 RQGCFFQPMWDLGHEHSQLSGRLRL 147

RESULT 10  
US-10-460-923-3  
Sequence 3, Application US/10460923  
Publication No. US20040009951A1  
GENERAL INFORMATION:  
APPLICANT: MALIM, Michael H.  
APPLICANT: SHEEHY, Ann M.  
APPLICANT: HARRIS, Reuben S.  
APPLICANT: BISHOP, Kate N.  
APPLICANT: NEUBERGER, Michael S.  
APPLICANT: GADDIS, Nathan C.  
APPLICANT: SIMON, James H.M.  
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection  
FILE REFERENCE: 2253-74380  
CURRENT APPLICATION NUMBER: US/10/460,923  
CURRENT FILING DATE: 2003-06-13  
PRIOR APPLICATION NUMBER: US 60/388,513  
PRIOR FILING DATE: 2002-06-13  
PRIOR APPLICATION NUMBER: US 60/472,952  
PRIOR FILING DATE: 2003-05-23  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 3  
LENGTH: 195  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-460-923-3

Query Match 22.0%; Score 238.5; DB 15; Length 195;  
Best Local Similarity 34.2%; Pred. No. 1.8e-18;  
Matches 63; Conservative 26; Mismatches 84; Indels 11; Gaps 6;

QY 6 MNRKFLYQPKNVMAKGRRETYLCYVVKRDSATSFSLDF---GYLNKGCHVELLF 61  
Db 12 MYRDFFSYFNFRPLSLRNVTWLCYEVTGSPRP-PLDAKIFRGQYVSLKHAPEVR 70  
QY 62 LAYISDM-DLDPGRCYRTWTFTSMSPCYDCARHYADFLRGPNLSLRTFRLTYFCEDRKA 120  
Db 71 FHWFSKMKLHRDQGYEYVWTWISPCYKCTRDWATFLAEPKVTLLIFVRLTYFMPDPD 130  
QY 121 APEGLRLHRAQVOIALMTFEDYFCWNTFVENHERTFKAMEGLHENSVALSQRRL 176  
Db 131 YQ-EALRLDCKRQDPRATMIMYDERGHGMSKFSVSGRLFPWMNLLPKYITLHIML 189  
QY 177 RRL 180

Db 190 GELL 193

## RESULT 11

US-10-460-923-6  
Sequence 6, Application US/10460923  
Publication No. US20040009951A1  
GENERAL INFORMATION:  
APPLICANT: MALIM, Michael H.  
APPLICANT: SHEEHY, Ann M.  
APPLICANT: HARRIS, Reuben S.  
APPLICANT: BISHOP, Kate N.  
APPLICANT: NEUBERGER, Michael S.  
APPLICANT: GADDIS, Nathan C.  
APPLICANT: SIMON, James H.M.  
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection  
FILE REFERENCE: 22253-74380  
CURRENT APPLICATION NUMBER: US/10/460,923  
CURRENT FILING DATE: 2003-06-13  
PRIOR APPLICATION NUMBER: US 60/388,513  
PRIOR FILING DATE: 2002-06-13  
PRIOR APPLICATION NUMBER: US 60/472,952  
PRIOR FILING DATE: 2003-05-23  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 6  
LENGTH: 219  
TYPE: PRT  
ORGANISM: Unknown  
FEATURE:  
OTHER INFORMATION: mouse orthologue  
US-10-460-923-6

Query Match 21.2%; Score 230; DB 15; Length 219;

Best Local Similarity 33.5%; Pred. No. 1.9e-17; Mismatches 67; Conservative 35; Indels 16; Gaps 8;

Db 5 LMRKRELYQFKVR-----WAKGRREYLYCYVKRSDATSPSLDFGLRNKG-CHYE 58  
25 LLSBEERYSGFYQRYVHLCYHGMK-PLYCYLDEPNQAPLK--GCLLSBKQKAE 80  
QY 59 LLLRYISMDLDPGRCYRTWFTSWSPCYDCARHVAFLRGPNISLRIFARLYPCED 118  
DB 81 ILFLDKIRSMELSQ--VITCYLTWSPCPCNCAMQLAAPKRPDLIIHITSRLYFHWK 137  
QY 119 RKAPEGLRLRHAGVQIAIMTFKDYFCMNTFVENHSTFKAMEGSLHNSVRLSRLRR 178  
DB 138 RPFQ-KGLCSLMOSGILVDVMDLPFTDCWTFV-NPKAPFPMKGLIISRTQRLHR 195  
QY 179 ILPLVEVDLRLDAFRLGL 198  
DB 196 I-KESWGLQDLVNDPGLQL 214

## RESULT 12

US-10-157-031-14  
Sequence 14, Application US/10157031  
Publication No. US20030108890A1  
GENERAL INFORMATION:  
APPLICANT: Baranova, A. V.  
APPLICANT: Yankovsky, N. K.  
APPLICANT: Kozlov, A. P.  
APPLICANT: Lobachev, A. V.  
APPLICANT: Krutovskaya, L. L.  
TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequences  
FILE REFERENCE: 2760-103  
CURRENT APPLICATION NUMBER: US/10/157,031  
CURRENT FILING DATE: 2002-05-30  
NUMBER OF SEQ ID NOS: 415  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 14  
LENGTH: 236

TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-157-031-14

Query Match 20.1%; Score 218.5; DB 14; Length 236;

Best Local Similarity 34.9%; Pred. No. 4e-16; Mismatches 44; Conservative 31; Indels 9; Gaps 4;

QY 35 RRDATSPSLDFGLR-----NKGCG-HVELLFL-RYISDMDLDPGRCYRVTFWTSMP 86  
DB 33 RKEACLYEIKMGSRKIMWSGKNTTNHVEVNFIKKFTSERDPHPSGCSITWFLSWSP 92  
QY 87 CYDCARHVAFLRGPNISLRIFARLYPCEDRAEELRLRAGVQIAIMTFKDYFY 146  
DB 93 CWECQAIREFLSHPGTVIYVARLFWMHDOQ-NRQGLRDLVNSGVTIQIMKASEYH 151  
QY 147 CWNTFV 152  
DB 152 CWNRNV 157

## RESULT 13

US-10-460-923-8  
Sequence 8, Application US/10460923  
Publication No. US20040009951A1  
GENERAL INFORMATION:  
APPLICANT: MALIM, Michael H.  
APPLICANT: SHEEHY, Ann M.  
APPLICANT: HARRIS, Reuben S.  
APPLICANT: BISHOP, Kate N.  
APPLICANT: NEUBERGER, Michael S.  
APPLICANT: GADDIS, Nathan C.  
APPLICANT: SIMON, James H.M.  
TITLE OF INVENTION: DNA Deamination Mediates Innate Immunity to Retroviral Infection  
FILE REFERENCE: 22253-74380  
CURRENT APPLICATION NUMBER: US/10/460,923  
CURRENT FILING DATE: 2003-06-13  
PRIOR APPLICATION NUMBER: US 60/388,513  
PRIOR FILING DATE: 2002-06-13  
PRIOR APPLICATION NUMBER: US 60/472,952  
PRIOR FILING DATE: 2003-05-23  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 8  
LENGTH: 236  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-460-923-8

Query Match 19.9%; Score 216.5; DB 15; Length 236;

Best Local Similarity 34.9%; Pred. No. 6.8e-16; Mismatches 44; Conservative 31; Indels 9; Gaps 4;

QY 35 RRDATSPSLDFGLR-----NKGCG-HVELLFL-RYISDMDLDPGRCYRVTFWTSMP 86  
DB 33 RKEACLYEIKMGSRKIMWSGKNTTNHVEVNFIKKFTSERDPHPSGCSITWFLSWSP 92  
QY 87 CYDCARHVAFLRGPNISLRIFARLYPCEDRAEELRLRAGVQIAIMTFKDYFY 146  
DB 93 CWECQAIREFLSHPGTVIYVARLFWMHDOQ-NRQGLRDLVNSGVTIQIMKASEYH 151  
QY 147 CWNTFV 152  
DB 152 CWNRNV 157

## RESULT 14

US-09-966-880A-36  
Sequence 36, Application US/09966880A  
Patent No. US20020164743A1  
GENERAL INFORMATION:  
APPLICANT: Honjo, Tasuku  
APPLICANT: Muramatsu, Masamichi

; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE  
 ; FILE REFERENCE: 06501-088001  
 ; CURRENT APPLICATION NUMBER: US/09/966, 880A  
 ; CURRENT FILING DATE: 2001-09-28  
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918  
 ; PRIOR FILING DATE: 2000-03-28  
 ; PRIOR APPLICATION NUMBER: JP 11-371382  
 ; PRIOR FILING DATE: 1999-12-27  
 ; PRIOR APPLICATION NUMBER: JP 11-178999  
 ; PRIOR FILING DATE: 1999-06-24  
 ; PRIOR APPLICATION NUMBER: JP 11-87192  
 ; PRIOR FILING DATE: 1999-03-29  
 ; NUMBER OF SEQ ID NOS: 36  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 36  
 ; LENGTH: 229  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; US-09-966-880A-36

Query Match 19.4%; Score 211; DB 9; Length 229;  
 Best Local Similarity 37.1%; Pred. No. 2,7e-15;  
 Matches 49; Conservative 24; Mismatches 49; Indels 10; Gaps 4;

QY 24 RRETYLCYVK--RDSATSFSLDFGLRNKNGCHVELLFL-RYISDMDLDPGRCYRTW 80  
 DB 33 RKETCLLEYINMGGRHSV-----WRHTSGNTSNHVENVPLEKTERFRFENTRCSTW 86  
 QY 81 FTSKSPCYDCARVADFLRGNPNLSLRFITARLYFCEDRAKEPEGRLRLRAGVOIAIMT 140  
 DB 87 FLMSWPCGECSSRAITEFLSHRYVTLFIYARLYHHTDOR-NROGLRDLISSGVITQIMT 145  
 QY 141 FXDYFCMNTFV 152  
 DB 146 EQEYCYCMRNFV 157

RESULT 15  
 US-10-104-047-3729  
 ; Sequence 3729, Application US/10104047  
 ; Publication No. US20030236392A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: HELIX RESEARCH INSTITUTE  
 ; TITLE OF INVENTION: NO. US20030236392A1e1 full length cDNA  
 ; FILE REFERENCE: H1-A0105  
 ; CURRENT APPLICATION NUMBER: US/10/104,047  
 ; CURRENT FILING DATE: 2002-03-25  
 ; PRIOR APPLICATION NUMBER:  
 ; PRIOR FILING DATE:  
 ; NUMBER OF SEQ ID NOS: 4096  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 3729  
 ; LENGTH: 127  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-104-047-3729

Query Match 18.2%; Score 198; DB 15; Length 127;  
 Best Local Similarity 36.8%; Pred. No. 3.7e-14;  
 Matches 46; Conservative 19; Mismatches 54; Indels 6; Gaps 4;

QY 61 ELRYISPM-DLDPGRCYRTWFTMSPCYDCARVADFLRGNPNLSLRFITARLYFCEDR 119  
 DB 3 FFWFSKMKLHRDQDEYEVWITWSMSECTCTRDMAFLAEDPKVTLTFVARLYYFWDP 62  
 QY 120 KAPEEGRLRL-HRAG--VOIAIMTFKDYFYCMNTFVENHERTFKAMEGLHNSVRLSRQ 175  
 DB 63 DYQ-EALRSICQKRDGFRATMKIMNYDEFQHCMSKFFVSGRELFEPMNNLPKYIILHIM 121  
 QY 176 LRRL 180  
 DB 122 LGRL 126

Search completed: March 18, 2004, 06:09:26  
 Job time : 57 secs